

Meeting to Discuss Issues Relating to the California Phase 3 Reformulated Gasoline Regulations

June 15, 2000

California Environmental Protection Agency



Air Resources Board

Agenda

- ♦ Introductions
- ♦ Topics of Discussion
 - Denatured Ethanol Specifications
 - Permeation
 - CaRBOB Regulation
 - Oxygenate Waiver Status
 - The Predictive Model and EMFAC2000
 - Small Refiners
 - Commingling
 - Update to the Board In July
- ♦ Presentation from Others
- ♦ Schedule Next Meeting

♦ Denatured Ethanol

- Specifications for denatured ethanol for use in motor vehicles fuels
- Proposal to the Board by October 2000

♦ Permeation emissions

- Contract in place with Harold Haskeew & Associates
- Update the Board in October 2000 on the potential increase in hydrocarbon emissions from material permeability with the use of ethanol in gasoline
- Report to the Board on the results of permeability testing by December 2001

♦ Permeation emissions (continued)

- Project plan for the initial phase of the investigation on the effects of ethanol on permeation emissions from soft fuel system fuel components
 - Collection of information regarding the distribution of materials across make, model, and technology of the vehicles in the 2003 time frame
 - Literature search regarding the permeation of fuel system materials
 - Collection of information on the distribution of vehicles in the California fleet
 - Estimate fleet wide effect of permeation emissions
 - Design validation test program

♦ CaRBOB

- Amendments to CaRFG to assure the practical and effective implementation of the on CaRBOB and imported gasoline
- CaRBOB model for certification of ethanol blends prior to the addition of ethanol
- Proposal to the Board by October 2000

- ♦ Continue to pursue the U. S. EPA oxygen waiver
 - Continue to support request to U. S. EPA to waive the application of the federal RFG year-round 2.0 wt.% Minimum oxygen requirement for federal RFG areas

- ♦ The Predictive model and EMFAC2000
 - EMFAC 2000 approved (pending resolution of a couple of outstanding issues) by the ARB in May 2000
 - Resolution of the outstanding issues will not be in time to meet the deadline for the adoption of the CaRFG3 Regulations

♦ Small refiner

- Amendments to the ARB's diesel fuel regulations to incorporate a mechanism for small refiners to fully mitigate any increased emissions associated with CaRFG3 small refiner provisions
- Proposal to the Board by October 2000

- ♦ Study to Investigate the Effects from the Commingling of EtOH Blends and Non-Oxygenated Gasoline. Data Collected in the study to include:
 - Range of ethanol content
 - Base fuel RVP of ethanol blends
 - Market share of ethanol
 - RVP-before and after purchase (sampling)
 - Information on distribution of fuels by regions
 - Consumer purchasing habits
- ♦ Report to the Board with any recommendations by December 2001

◆ Driveability index

- Transmitted to the U. S. EPA the board's recommendation to adopt a nationwide DI standard to assure the adequate emissions performance of existing and advanced technology motor vehicles
- Evaluate the DI of in-use CaRFG to determine whether the in-use-DI levels are adequate to minimize any adverse impacts on the DI levels on the in-use emission performance
- Report to the Board by 2004

- ◆ Work with local air quality management districts and local communities to address potential impacts from an increase use of cargo tank trucks to transport ethanol
- ◆ Provide the Board with update every 6 months on the of the implementation of the directives

◆ Presentation from others

◆ Schedule next meeting